

101.2 - Low Alloy Steels (chip form) [150 g units (unless otherwise noted)]

Technical Contact: john.sieber@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit Size	C	Mn	P	S	S (Comb)	Si	Cu	Ni
30f	LA Steel, Cr-V (SAE 6150)	150 g	0.490	0.79	0.011		0.009	0.283	0.074	0.070
32e	Nickel-Chromium Steel (SAE 3140)	150 g	0.4086	0.7983	0.00888	0.0210		0.2775	0.1266	1.1938
33e	LA Steel, Ni-Mo (SAE 4820)	150 g	0.186	0.525	0.005		0.009	0.262	0.070	3.36
36b	Chromium-Molybdenum Steel	150 g	0.1143	0.4041	0.0074		0.01871	0.2580	0.1792	0.205
72g	LA Steel (AISI 4130)	150 g	0.278	0.492	0.009		0.014	0.223	0.011	0.016
100b	LA Steel, Manganese (SAE (T340)	150 g	0.397	1.89	0.023	0.029 (Grav)	0.028	0.210	0.064	0.030
106b	LA Steel, Cr-Mo-Al (Nitr alloy rG)	150 g	0.326	0.506	0.008	0.016 (Grav)	0.017	0.274	0.117	0.217
125b	LA Steel, High Silicon	150 g	0.028	0.278	0.029		0.008	2.89	0.071	0.038
129c	LA Steel, High Sulfur (SAE 112)	150 g	0.125	0.769	0.076		0.245	0.020	0.013	0.251
131g	Low Alloy Silicon Steel	150 g	0.0035			0.0004255				
139b	LA Steel, Cr-Ni-Mo (AISI 8640)	150 g	0.403	0.778	0.013		0.019	0.242	0.097	0.510
155	LA Steel, Cr-W	150 g	0.905	1.24	0.015	0.010 (Grav)	0.011	0.322	0.083	0.100
163	LA Steel, 1.0 C	100 g	0.933	0.897	0.007		0.027	0.488	0.087	0.081
179	LA Steel, High Silicon	150 g	0.027	0.094	0.006		0.026	3.19	0.056	0.050
291	LA Steel, Cr-Mo (ASTM A 213)	150 g	0.177	0.550	0.008		0.020	0.230	0.047	0.065
293	LA Steel, Cr-Ni-Mo (AISI 8620)	150 g	0.222	0.960	0.018		0.022	0.300	0.032	0.480
SRM>	Description	Unit of Issue	C	Mn	P	S	S (Comb)	Si	Cu	Ni
2171	LA Steel, (HSLA 100)	150 g	0.066	0.73	0.006		0.0012	0.338	1.47	3.35

Values in parentheses are not certified and are given for information only.

*Values determined by isotope dilution mass spectrometric (IDMS) analysis.

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SRM	Description	Unit Size	Cr	N	V	Mo	Sn	Al (total)
30f	LA Steel, Cr-V (SAE 6150)	150 g	0.945	0.010				
32e	Nickel-Chromium Steel (SAE 3140)	150 g	0.6775	(0.009)	0.00225	0.0228	(0.011)	
33e	LA Steel, Ni-Mo (SAE 4820)	150 g	0.068			0.224		0.030
36b	Chromium-Molybdenum Steel	150 g	2.178		0.0043	0.9960		
72g	LA Steel (AISI 4130)	150 g	0.905	(0.008)	0.003	0.170		(0.041)
100b	LA Steel, Manganese (SAE (T340)	150 g	0.063	0.004	0.003	0.237		
106b	LA Steel, Cr-Mo-Al (Nitr alloy rG)	150 g	1.18		0.003	0.199		1.07
125b	LA Steel, High Silicon	150 g	0.019	Ca 0.0051		0.008	0.003	0.329
129c	LA Steel, High Sulfur (SAE 112)	150 g	0.014		0.012	0.002		
131g	Low Alloy Silicon Steel	150 g						
139b	LA Steel, Cr-Ni-Mo (AISI 8640)	150 g	0.488	0.007	0.004	0.182		
155	LA Steel, Cr-W	150 g	0.485	W 0.517	0.014	0.039		
163	LA Steel, 1.0 C	100 g	0.982	0.007		0.029		
179	LA Steel, High Silicon	150 g	0.022		<0.01	0.014	0.004	0.0028
291	LA Steel, Cr-Mo (ASTM A 213)	150 g	1.33			0.538		0.002
293	LA Steel, Cr-Ni-Mo (AISI 8620)	150 g	0.510		0.004	0.204		0.039
SRM>	Description	Unit of Issue	Cr	N	V	Mo	Sn	Al (total)
2171	LA Steel, (HSLA 100)	150 g	0.550	Nb 0.024	0.003	0.546		0.019

Values in parentheses are not certified and are given for information only.

*Values determined by isotope dilution mass spectrometric (IDMS) analysis.